

Db		601	CTTCAGAGACGAGCAGGGCGACGGGCGACGGGCGACGGGAGGCCCTGCATTTCTCTAC	660
Oy		1914	GCCCAAGCTTCCGGGAAGGTGCTAAGACAGCCAGCGCTGCATGACAATGAGAGAGAGCGCCA	1973
Db		661	GCCCCAGGTTCGGGAAGGTGTAGACAGGCCAGCGCTGCATGACAAAGAGAAGGCGCG	720
Oy		1974	GGCCTGA 1980 	
Db		721	AGCCTGA 727	
RESULT 8				
BESJ1347				
LOCUS				
DEFINITION			BESJ1347 750 bp mRNA linear EST 09-AUG-2000	
ACCESSION			601278540F1 NIH_MGC_39 Homo sapiens CDNA clone IMAGE:3610616 5',	
VERSION			mRNA sequence.	
KEYWORDS			BESJ1347.1 GI:9759906	
SOURCE			EST.	
ORGANISM			Homo sapiens (human)	
REFERENCE			Home sapiens Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
AUTHORS			Eukaryota; Eutheria; Primates; Catarrhini; Hominiidae; Homo.	
TITLE			Mammalia; 1 (bases 1 to 750)	
JOURNAL			NIH-MGC http://mgc.nci.nih.gov/	
COMMENT			National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished Contact: Robert Strausberg, Ph.D. Email: cgapbs@mail.nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Ling Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov Plate: LNCM266 row: p column: 09 High quality sequence start: 3 High quality sequence stop: 750. Location/Qualifiers 1..750 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:3610616" /tissue_type="adenocarcinoma" /lab_host="DH10B (phage-resistant)" /clone_lib="NH MGC 39" /note="Organ: pancreas; Vector: pORF7; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)." .	
BASE COUNT			158 a 240 c 232 g 120 t	
ORIGIN				
Query Match			35.9%; Score 711; DB 10; Length 750;	
Best Local Similarity			100.0%; Pred. No. 1.5e-128;	
Matches 711; Conservative			0; Mismatches 0; Indels 0; Gaps 0;	
Oy		1100	ACTTCTACCTTGAGCGCTTACCTTACCAACAATGTGCGCTCTGGAGTAGAGAGTGGCCC	1159
Db		40	ACTTCTACCTTGAGCGCTTACCTTACCAACAATGTGCGCTCTGGAGTAGAGAGTGGCCC	99
Oy		1150	AGCTGCTCCGCACTGGAAGAGAGCACCGCTTATTGAGGCTTCAGAGAGCAGGGCCA	1219
Db		100	AGCTGCTCCGCACTGGAAGAGAGCACCGCTTATTGAGGCTTCAGAGAGCAGGGCCA	159
Oy		1220	CCCAAGTCTGCTCATCTGCAAGATGAGGCGTCAAGCGCTCAGCGSCACAGTGTGGCGCT	1279

Db	Accession	Version	KeyWords	Source	Organism	Reference Authors Title Journal	Comment
Db	160	CCCAAGTGTGGTCTCAATGCAAGATGGAGCGCTCAGCGGCTCAGAGGGCCACAGTGTGGAGCT	219				
Db	1280	ATGCGCATGAAGACGATACGAATTCAGAGCTTGAAGAGAGGCTCTGCGCACATGTGACAGAGCTCC	1339				
Db	220	ATGCGCATGAAGAGAGTAAAGATGCAAGTCTGAGAGAGGCTCTGCGCACATGTGACAGAGCTCC	279				
Db	1340	GGCCCATGCGCCCGCCCAACCCCTGGAGTCTCTGGCGCCAGCTGACAGATCTACACAGGAGATCC	1359				
Db	280	GGCCCATGCGCCCGCCCAACCCCTGGAGTCTCTGGCGCCAGCTGACAGATCTACACAGGAGATCC	339				
Db	1400	TGACGGCCAGCCCGCCAGAGCCATGTCTGGAGAGAGAAAGTGGTGGGCTCTCCCAAGAG	1459				
Db	340	TGACGGCCAGCCCGCCAGAGCCATGTCTGGAGAGAGAAAGTGGTGGGCTCTCCCAAGAG	399				
Db	1460	AGCACCCAGAGCCCTGAAAGTCTTACACATTCCTCTTCCGCGCAAGACTGAGAGGTG	1519				
Db	400	AGCACCCAGAGCCCTGAAAGTCTTACACATTCCTCTTCCGCGCAAGACTGAGAGGTG	459				
Db	1520	GTCGGGAGAGAAAGTGTATGGAGATGGAAGAAGAGCCAGAGCCCGGAAAGAGAGCTG	1579				
Db	460	GTCGGGAGAGAAAGTGTATGGAGATGGAAGAAGAGCCAGAGCCCGGAAAGAGAGCTG	519				
Db	1580	GGCCACGGCCACGATATTAACCTCCAGAGGGGTCAATGAGGTCAATAGTCTTCTGAGAGCCT	1639				
Db	520	GGCCACGGCCACGATATTAACCTCCAGAGGGGTCAATGAGGTCAATAGTCTTCTGAGAGCCT	579				
Db	1640	CCTTGAGAGCTGAGAGAGCACTCAGAGACCAAGTACATGACAGAGTCTTCTTCCAG	1699				
Db	580	CCTTGAGAGCTGAGAGAGCACTCAGAGACCAAGTACATGACAGAGTCTTCTTCCAG	639				
Db	1700	AGTCTTCAATGAAAGAGCTCTGCAAGCCCTTCCCAAGCTTGGCAAGGACCAAGGAGAGCC	1759				
Db	640	AGTCTTCAATGAAAGAGCTCTGCAAGCCCTTCCCAAGCTTGGCAAGGACCAAGGAGAGCC	699				
Db	1760	AGCAGGTGAGCAGAGGGGCTCAGGCTCCCTGAAAGTCCCGCAAGTCAAGTGG	1810				
Db	700	AGCAGGTGAGCAGAGGGGCTCAGGCTCCCTGAAAGTCCCGCAAGTCAAGTGG	750				
RESULT 9	BUS37952	947 bp	mRNA	linear	EST 13-8BP-2002		
DEFINITION	AGENCOURT_10186579 NIH_MGC_107 Homo sapiens cDNA clone						
LOCUS	IMAGE:6586457 5', mRNA sequence.						
ACCESSION	BUS37952						
VERSION	BUS37952.1	GI:22848393					
KEYWORDS	EST.						
SOURCE	Homo sapiens (human)						
ORGANISM	Homo sapiens						
REFERENCE	Makaryote; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.						
AUTHORS	1 (bases 1 to 947)						
TITLE	NIH-MGC http://mgs.nci.nih.gov/						
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)						
COMMENT	Unpublished Contact: Robert Strausberg, Ph.D. Email: gsapds-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov Plate: L10C2754 row: c column: 17 High quality sequence stop: 614. Location/Qualifiers 1. 947 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:6586457" /tissue_type="adenocarcinoma, cell line"						

File
Copy

DE Novel human coding sequence SEQ ID NO: 243.

XX Human; anti-nausea; vulnerability; anti-inflammatory; immunomodulator;
 KW anti-infectivity; cerebroprotective; cytoskeletal; rheumatic; gene therapy;
 KW neuroprotective; antiparkinsonian; protein therapy; EST;
 XX expressed sequence tag; gene; ss.

OS Homo sapiens.

XX MO200222660-A2

XX 21-MAR-2002.

XX 10-SEP-2001; 2001WO-US26015.

XX 11-SEP-2000; 2000US-0659671.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao Q, Ren F;
 PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;
 DR WPI; 2002-292408/33.

XX P-Psdb; ABB97419.

XX An isolated polynucleotide for treating diseases associated with its
 PT encoded polypeptide such as cancer and multiple sclerosis -

XX Claim 1; SEQ ID NO 243; 509bp; English.

XX The present invention provides the protein and coding sequences of 444
 CC novel human proteins. These were isolated from expressed sequences tags
 CC (ESTs). They can be used to stimulate cell growth, to regulate
 CC haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth
 CC e.g. in burn treatment, to regulate the immune system e.g. to treat
 CC multiple sclerosis, to regulate actin or tubulin e.g. to treat
 CC infertility, to regulate haemostasis or thrombolysis e.g. to treat
 CC stroke and cancer, to screen for drugs, to treat inflammatory conditions
 CC e.g. rheumatoid arthritis, and to treat nervous system disorders e.g.
 CC Parkinson's disease. The present sequence is a coding sequence of the
 CC invention.

XX Sequence 2061 BP; 415 A; 672 C; 605 G; 369 T; 0 other;

XX Query Match
 XX Best Local Similarity 43.0%; Score 851; DB 24; Length 2061;
 XX Matches 851; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGGCCCTGCTCAGTGAAGCCGTTGCGCCCGGAGCGCGCTTCAAGCCGTTGGGG 60
 147 ATGGCCCTGCTCAGTGAAGCCGTTGCGCCCGGAGCGCGCTTCAAGCCGTTGGGG 206
 61 CCCTGGAGCAGCGCGGCTCCAGAGAGAGTCACTCCAGAGAGAGAGCTTTGGGGT 120
 207 CCCTGGAGCAGCGCGGCTCCAGAGAGAGTCACTCCAGAGAGAGAGCTTTGGGGT 266
 121 CTCCGTGGGGCTGTCTCTGGAGTCAAGTGAAGGGGAGAAATGATATGACAGAGGCC 180
 267 CTCCGTGGGGCTGTCTCTGGAGTCAAGTGAAGGGGAGAAATGATATGACAGAGGCC 326
 181 AGTTCTGAGCCCAAG 240
 327 AGTTCTGAGCCCAAG 386
 241 TTGGGCAAGAGTCCAGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
 387 TTGGGCAAGAGTCCAGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 446
 301 ATGTGACAGCTGCTGAGGCGGAGAGATGATCCGCTGGAGAGAGAGAGAGAGAGAG 360
 447 ATGTGACAGCTGCTGAGGCGGAGAGATGATCCGCTGGAGAGAGAGAGAGAGAGAG 506
 361 CGGCTCCCGGCTCCGCTAGTCTGTTTACACGAGAGAGAGAGAGAGAGAGAGAGAG 420

DB 507 CGGCTCCCGGCTCCGCTAAGTCTGAGTCTTACACGAGAGAGAGAGAGAGAGAG 566
 QY 421 CAG 480
 DB 567 CAG 626
 QY 481 CTGGGCTGCTGCTTTCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
 DB 627 CTGGGCTGCTGCTTTCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 686
 QY 541 TTGAGCGTGAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
 DB 687 TTGAGCGTGAAGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 746
 QY 601 TTGGGCAAGAGTCCAGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
 DB 747 TTGGGCAAGAGTCCAGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 806
 QY 661 CCGGCTGAGAGTCCCTCAAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
 DB 807 CCGGCTGAGAGTCCCTCAAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 866
 QY 721 AGCTGCTCAATGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
 DB 867 AGCTGCTCAATGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 926
 QY 781 GAGCTGAGAGAGTCCCTCAAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
 DB 927 GAGCTGAGAGAGTCCCTCAAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 986
 QY 841 AAAGTGTGGA 851
 DB 987 AAAGTGTGGA 997

RESULT 11
 AAH14722
 ID AAH14722 standard; cDNA; 1755 BP.
 AC AAH14722;
 XX
 XX
 XX 26-JUN-2001 (first entry)
 DT
 XX
 XX Human cDNA sequence SEQ ID NO:12452.
 DE
 XX
 XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 KW
 XX Homo sapiens.
 OS
 XX
 XX EP1074617-A2.
 PN
 XX
 XX 07-FEB-2001.
 PD
 XX
 XX 28-JUL-2000; 2000EP-0116126.
 PF
 XX
 XX 29-JUL-1999; 99JP-0248036.
 PR
 XX 27-AUG-1999; 98JP-0300253.
 PR 11-JAN-2000; 2000JP-0118776.
 PR 02-MAY-2000; 2000JP-0183767.
 PR 09-JUN-2000; 2000JP-0241899.
 PA
 XX (HELI-) HELIX RES INST.
 XX
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 DR WPI; 2001-318749/34.
 XX
 XX Primer sets for synthesizing polynucleotides, particularly the 5602
 PT full-length cDNAs defined in the specification, and for the detection
 PT and/or diagnosis of the abnormality of the proteins encoded by the
 PT full-length cDNAs -

claim 8; SEQ ID 12452; 2537bp + CD ROM; English.

The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the 5' end of a polynucleotide strand of a polynucleotide which comprises one of the 5602 polynucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the 5' end of a polynucleotide strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesizing polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialized methods. AAH03166 to AAH13628 and AAH13633 to AAH18142 represent human cDNA sequences; AAH92446 to AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention.

Sequence 1755 BP; 350 A; 577 C; 505 G; 323 T; 0 other;

Query Match 35.1%; Score 694; DB 22; Length 1755;

Best Local Similarity 89.1%; Pred. No. 2.2e-137;

Matches 802; Conservative 0; Mismatches 0; Indels 98; Gaps 1;

1081 ATGGCCGGGAGATTGACAACTTCAACCTGAGGCGCTTACCTACCAATGTTGGGCTTC 1140
332 ATGGCCGGGAGATTGACAACTTCAACCTGAGGCGCTTACCTACCAATGTTGGGCTTC 381
1141 TGGGATGAGAGAGTGGCCAGCTGCTGCGGCACTGGAGAGAGACGACCGCTTCATTGAG 1200
382 TGGGATGAGAGAGTGGCCAGCTGCTGCGGCACTGGAGAGAGACGACCGCTTCATTGAG 441
1201 GTTGCAAGAGACACAGGACACCAAGTCTGCTGCTCACTGCAAGATGGGCTCAGCCGCTCA 1260
442 GTTGCAAGAGACACAGGACACCAAGTCTGCTGCTCACTGCAAGATGGGCTCAGCCGCTCA 501
1261 GGGGACACAGTCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320
502 GGGGACACAGTCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 561
1321 GGGGACACAGTCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
562 GGGGACACAGTCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 621
1381 CAGATCTACAGAGGATCTCTGCGGCGACCGCCAGAGCCATGCTTGGAGCAGAAAGTG 1440
622 CAGATCTACAGAGGATCTCTGCGGCGACCGCCAGAGCCATGCTTGGAGCAGAAAGTG 645
1441 GGTGGGATCTCCCAAGAGAGACCAAGCCCTGAGTCTCAACACATTCACACTCTT 1500
646 ----- 645

1501 CCGCAGAACTGAGAGTGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1560
646 --GCCAGAACTGAGAGTGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 703
1561 GGGGAG 1620
704 GGGGAG 763
1621 ATCAGTCTCTGAG 1680
764 ATCAGTCTCTGAG 823
1681 GAGGCTCTCTCTTCCAG 1740

824 GAGGCTCTCTCTTCCAG 883
1741 GCGAG 1800
884 GCGAG 943
1801 CAGTACAGTCTCTCTTCCAG 1860
944 CAGTACAGTCTCTCTTCCAG 1903
1861 GAGCAG 1920
1004 GAGCAG 1063
1921 TTCCGAG 1980
1064 TTCCGAG 1123

RESULT 12
ABL40801 standard; DNA; 1755 BP.
AC ABL40801;
DT 03-JUL-2002 (first entry)

Human MAP kinase phosphatase-1-like enzyme DNA fragment.
Mitogen activated protein; MAP; MAP kinase phosphatase-1-like enzyme;
antihypertensive; antidiabetic; anorectic; cytoskeletal; cardiac; human;
antiparkinsonian; cerebroprotective; neuroprotective; nocturnal; gene;
neuroleptic; anticonvulsant; anti-HIV; antiallergic; hypotensive;
antiallergic; dermatological; vulnary; gene therapy; de.
OS Homo sapiens.
PW WO200220732-A2
PD 14-MAR-2002.
PF 27-AUG-2001; 2001WO-EP09848.
PR 07-SEP-2000; 2000US-230709P.
PA (FARB) BAYER AG.
PI Liou J;
DR WPI: 2002-339802/37.
XX New human mitogen activated protein kinase phosphatase-1-like enzyme
PT polypeptide, regulators of which are useful for preventing, treating
PT allergies including asthma, diabetes, obesity, cancer and
PT cardiovascular diseases
XX
XX Disclosure; Fig 4, 134p; English.
XX
XX The invention relates to a purified human mitogen activated protein (MAP)
XX kinase phosphatase-1-like enzyme polypeptide. The enzyme can be expressed
XX by standard recombinant methodology. The MAP kinase phosphatase-1-like
XX enzyme and encoding polynucleotides are useful for screening for
XX modulators which are used for treating a MAP kinase phosphatase-1-like
XX system dysfunction related disease, such as asthma, a central nervous
XX system disorder, diabetes, obesity, chronic obstructive pulmonary
XX disease, cancer or a cardiovascular disease. The enzyme can be regulated
XX to treat allergies including asthma, allergic rhinitis, atopic
XX dermatitis, and anaphylaxis, central nervous system disorders such as
XX brain injuries, Parkinson's disease, dementia, multiple sclerosis,
XX stroke, Alzheimer's disease, Huntington's disease, schizophrenia, Pick's
XX disease, Creutzfeldt-Jacob dementia, progressive nuclear palsy, and human
XX immunodeficiency virus (HIV) dementia, and cardiovascular diseases

CC including myocardial infarction, ischemic diseases of the heart, atrial
CC and ventricular arrhythmia, hypertensive vascular diseases and peripheral
CC vascular diseases. The enzyme is useful in diagnostic assays for
CC detecting diseases and abnormalities or susceptibility to diseases or
CC abnormalities related to the presence of mutations in the encoding
CC nucleic acid sequences. The present sequence represents the human MAP
CC kinase phosphatase-like enzyme DNA fragment.

XX Sequence 1755 BP; 350 A; 577 C; 505 G; 323 T; 0 other;

Query Match 35.1%; Score 694; DB 24; Length 1755;

Best Local Similarity 89.1%; Pred. No. 2.2e-137; Indels 98; Gaps 1;

Matches 802; Conservative 0; Mismatches 0;

QY 1081 ATGGCCGGGAGATGACAACTTCTACCTGAGCGCTTCACTACCAATGTCGCTTC 1140
DB 322 ATGGCCGGGAGATGACAACTTCTACCTGAGCGCTTCACTACCAATGTCGCTTC 381
QY 1141 TGGGATGAGAGTGGCCCAAGCTGCTGCGCACTGGAAGAGACGCACTTCATTAG 1200
DB 382 TGGGATGAGAGTGGCCCAAGCTGCTGCGCACTGGAAGAGACGCACTTCATTAG 441
QY 1201 GCTGCAAGAGAGAGGAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
DB 442 GCTGCAAGAGAGAGGAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 501
QY 1261 GCGGCCAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
DB 502 GCGGCCAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 561
QY 1321 GCGGCCAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380
DB 562 GCGGCCAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 621
QY 1381 CAGATCTACAGAGGAGCATCTGAGCGCGCAGCGCGCAGAGCATGCTGAGAGCAAAAGTG 1440
DB 622 CAGATCTACAGAGGAGCATCTGAGCGCGCAGCGCGCAGAGCATGCTGAGAGCAAAAGTG 645
QY 1441 GGTGGGGTCTCCCGAGAGAGACCCAGCCCTGAGTCTCTACCAATTCGACCTCTT 1500
DB 646 ----- 645
QY 1501 CCGCCAGAGACCTGAGGCTGTGGGAGAGAGAGTTTATGACATGAGAGAGCCAGCGCA 1560
DB 646 --CCAGAGACCTGAGGCTGTGGGAGAGAGAGTTTATGAGCATGAGAGAGCCAGCGCA 703
QY 1561 GCCCCGAAAGAGAGCTGGGCGCCAGCGCGCACTTAATCCGAGGGGTCTCATGAGGTC 1620
DB 704 GCCCCGAAAGAGAGCTGGGCGCCAGCGCGCACTTAATCCGAGGGGTCTCATGAGGTC 763
QY 1621 ATGAGTCTTGTGAGGCTCTCTTGTGAGCTGAGAGACCTCAAGAGACAGTGAATGCCA 1680
DB 764 ATGAGTCTTGTGAGGCTCTCTTGTGAGCTGAGAGACCTCAAGAGACAGTGAATGCCA 823
QY 1681 GAGGTCTTCTTCTCCCAAGAGTCTTCAATGAGAGAGCTTCTGAGCGCTTCCACAGCTT 1740
DB 824 GAGGTCTTCTTCTCCCAAGAGTCTTCAATGAGAGAGCTTCTGAGCGCTTCCACAGCTT 883
QY 1741 GCAAGGACCAAGGAGGAGCGAGAGTGAAGAGAGGAGGCTCAGCGCTGCGCTGAGTCCGCG 1800
DB 884 GCAAGGACCAAGGAGGAGCGAGAGTGAAGAGAGGAGGCTCAGCGCTGCGCTGAGTCCGCG 943
QY 1801 CAGTCACTGTGTTACCTTCAAGGAGAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860
DB 944 CAGTCACTGTGTTACCTTCAAGGAGAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1003
QY 1861 GACAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1920
DB 1004 GACAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1063
QY 1921 TTCCGAGAGTGTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1980
DB 1064 TTCCGAGAGTGTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1123

RESULT 13
ID ABL40803
XX ABL40803 standard; DNA; 599 BP.

AC ABL40803;

XX 03-JUL-2002 (first entry)

XX Human MAP kinase phosphatase-like enzyme DNA fragment.

XX Mitogen activated protein; MAP; MAP kinase phosphatase-like enzyme;
XX anti-asthmatic; antidiabetic; anorectic; cytostatic; cardiant; human;
XX anti-parkinsonian; cerebroprotective; neuroprotective; nootropic; gene;
XX neuroleptic; anticonvulsant; anti-HIV; antirhythmic; hypotensive;
XX antiallergic; dermatological; vulnery; gene therapy; db.

OS Homo sapiens.

XX WO200220732-A2.

XX 14-MAR-2002.

XX 27-AUG-2001; 2001WO-EP09848.

XX 07-SEP-2000; 2000US-230709P.

XX (FARB) BAYER AG.

XX Liou J;

XX WPI; 2002-339802/37.

PT New human mitogen activated protein kinase phosphatase-like enzyme
PT polypeptide, regulators of which are useful for preventing, treating
PT allergies including asthma, diabetes, obesity, cancer and
PT cardiovascular diseases

PS Disclosure; Fig 8; 134p; English.

XX The invention relates to a purified human mitogen activated protein (MAP)
XX kinase phosphatase-like enzyme polypeptide. The enzyme can be expressed
XX by standard recombinant methodology. The MAP kinase phosphatase-like
XX enzyme and encoding polynucleotides are useful for screening for
XX modulators which are used for treating a MAP kinase phosphatase-like
XX enzyme dysfunction related disease, such as asthma, a central nervous
XX system disorder, diabetes, obesity, chronic obstructive pulmonary
XX disease, cancer or a cardiovascular disease. The enzyme can be regulated
XX to treat allergies including asthma, allergic rhinitis, atopic
XX dermatitis, and anaphylaxis, central nervous system disorders such as
XX brain injuries, Parkinson's disease, dementia, multiple sclerosis,
XX stroke, Alzheimer's disease, Huntington's disease, schizophrenia, Pick's
XX disease, Creutzfeldt-Jacob dementia, progressive nuclear palsy, and human
XX immunodeficiency virus (HIV) dementia, and cardiovascular diseases
XX including myocardial infarction, ischemic diseases of the heart, atrial
XX and ventricular arrhythmia, hypertensive vascular diseases and peripheral
XX vascular diseases. The enzyme is useful in diagnostic assays for
XX detecting diseases and abnormalities or susceptibility to diseases or
XX abnormalities related to the presence of mutations in the encoding
XX nucleic acid sequences. The present sequence represents the human MAP
XX kinase phosphatase-like enzyme DNA fragment.

XX Sequence 599 BP; 135 A; 185 C; 183 G; 96 T; 0 other;

Query Match 24.8%; Score 491; DB 24; Length 599;

Best Local Similarity 85.9%; Pred. No. 1.6e-94; Indels 98; Gaps 1;

Matches 599; Conservative 0; Mismatches 0;

QY 1024 TGAAGCAGCAAACTGAGAGAGCTGCAAGAGAAAGAGGTCAACCACTTTGAATG 1083
DB 1 TGAAGCAGCAAACTGAGAGAGCTGCAAGAGAAAGAGGTCAACCACTTTGAATG 60